

# Release Notes

**FortiManager 7.2.4**



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FortiManager 7.2.4 Release Notes

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# Change Log

| Date       | Change Description                                                                               |
|------------|--------------------------------------------------------------------------------------------------|
| 2023-09-28 | Initial release.                                                                                 |
| 2023-09-29 | Updated <a href="#">Resolved Issues on page 40</a> and <a href="#">Known Issues on page 46</a> . |
| 2023-10-03 | Updated <a href="#">Resolved Issues on page 40</a> .                                             |
| 2023-10-12 | Updated <a href="#">Resolved Issues on page 40</a> and <a href="#">Known Issues on page 46</a> . |
| 2023-10-17 | Updated <a href="#">Resolved Issues on page 40</a>                                               |
| 2023-10-19 | Updated <a href="#">Management extension applications on page 7</a> .                            |

# FortiManager 7.2.4 Release

This document provides information about FortiManager version 7.2.4 build 1460.



The recommended minimum screen resolution for the FortiManager GUI is 1920 x 1080. Please adjust the screen resolution accordingly. Otherwise, the GUI may not display properly.

This section includes the following topics:

- [Supported models on page 7](#)
- [FortiManager VM subscription license on page 7](#)
- [Management extension applications on page 7](#)

## Supported models

FortiManager version 7.2.4 supports the following models:

|                        |                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FortiManager</b>    | FMG-200F, FMG-200G, FMG-300F, FMG-400E, FMG-400G, FMG-1000F, FMG-2000E<br>FMG-3000F, FMG-3000G, FMG-3700F, and FMG-3700G.                                                                                                                       |
| <b>FortiManager VM</b> | FMG_DOCKER, FMG_VM64, FMG_VM64_ALI, FMG_VM64_AWS, FMG_VM64_AWSOnDemand, FMG_VM64_Azure, FMG_VM64_GCP, FMG_VM64_IBM, FMG_VM64_HV (including Hyper-V 2016, 2019), FMG_VM64_KVM, FMG_VM64_OPC, FMG_VM64_XEN (for both Citrix and Open Source Xen). |

## FortiManager VM subscription license

The FortiManager VM subscription license supports FortiManager version 6.4.1 and later. For information about supported firmware, see [FortiManager VM firmware on page 17](#).

See also [Appendix B - Default and maximum number of ADOMs supported on page 51](#).

## Management extension applications

The following section describes supported models and minimum system requirements for management extension applications (MEA) in FortiManager 7.2.4.



FortiManager uses port TCP/443 or TCP/4443 to connect to the Fortinet registry and download MEAs. Ensure that the port is also open on any upstream FortiGates. For more information about incoming and outgoing ports, see the [FortiManager 7.0 Ports Guide](#).

## Supported models for MEA

As of FortiManager 7.2.3, the *Management Extensions* pane is only visible in the GUI when docker status is enabled and at least one MEA is enabled and downloaded. For more information about enabling and using the MEAs, see the Management Extensions documentation in the [FortiManager Documents Library](#).

You can use any of the following FortiManager models as a host for management extension applications:

|                        |                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FortiManager</b>    | FMG-3000F, FMG-3000G, FMG-3700F, and FMG-3700G.                                                                                                                                                                                                 |
| <b>FortiManager VM</b> | FMG_DOCKER, FMG_VM64, FMG_VM64_ALI, FMG_VM64_AWS, FMG_VM64_AWSOnDemand, FMG_VM64_Azure, FMG_VM64_GCP, FMG_VM64_IBM, FMG_VM64_HV (including Hyper-V 2016, 2019), FMG_VM64_KVM, FMG_VM64_OPC, FMG_VM64_XEN (for both Citrix and Open Source Xen). |

## Minimum system requirements

By default FortiManager VMs use the following system resource settings:

- 4 vCPU
- 16 GB RAM
- 500 GB disk space

Starting with FortiManager 7.0.0, RAM and CPU is capped at 50% for MEAs. (Use the `config system docker` command to view the setting.) If FortiManager has 8 CPUs and 16 GB RAM, then only 4 CPUs and 8 GB RAM are available to MEAs by default, and the 4 CPUs and 8 GB RAM are used for all enabled MEAs.

Some management extension applications have minimum system requirements that require you to increase system resources. The following table identifies the minimum requirements for each MEA as well as the recommended system resources to function well in a production environment.

MEA minimum system requirements apply only to the individual MEA and do not take into consideration any system requirements for resource-sensitive FortiManager features or multiple, enabled MEAs. If you are using multiple MEAs, you must increase the system resources to meet the cumulative need of each MEA.

| Management Extension Application | Minimum system requirements                                                                                    | Recommended system resources for production* |
|----------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>FortiAIOps</b>                | <ul style="list-style-type: none"> <li>• 8 vCPU</li> <li>• 32 GB RAM</li> <li>• 500 GB disk storage</li> </ul> | No change                                    |
| <b>FortiSigConverter</b>         | <ul style="list-style-type: none"> <li>• 4 vCPU</li> <li>• 8 GB RAM</li> </ul>                                 | No change                                    |



| Management Extension Application   | Minimum system requirements                                                                                     | Recommended system resources for production*                                                                           |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>FortiSOAR</b>                   | <ul style="list-style-type: none"> <li>• 4 vCPU</li> <li>• 8 GB RAM</li> <li>• 500 GB disk storage</li> </ul>   | <ul style="list-style-type: none"> <li>• 16 vCPU</li> <li>• 64 GB RAM</li> <li>• No change for disk storage</li> </ul> |
| <b>Policy Analyzer</b>             | <ul style="list-style-type: none"> <li>• 4 vCPU</li> <li>• 8 GB RAM</li> </ul>                                  | No change                                                                                                              |
| <b>Universal Connector</b>         | <ul style="list-style-type: none"> <li>• 1 GHZ vCPU</li> <li>• 2 GB RAM</li> <li>• 1 GB disk storage</li> </ul> | No change                                                                                                              |
| <b>Wireless Manager (FortiWLM)</b> | <ul style="list-style-type: none"> <li>• 4 vCPU</li> <li>• 8 GB RAM</li> </ul>                                  | No change                                                                                                              |

\*The numbers in the *Recommended system resources for production* column are a combination of the default system resource settings for FortiManager plus the minimum system requirements for the MEA.

# Special Notices

This section highlights some of the operational changes that administrators should be aware of in 7.2.4.

## Install On column for policies

Prior to version 7.2.3, the 'Install-on' column for policies in the policy block had no effect. However, starting from version 7.2.3, the 'Install-on' column is operational and significantly impacts the behavior and installation process of policies. It's important to note that using 'Install-on' on policies in the policy block is not recommended. If required, this setting can only be configured through a script or JSON APIs.

## Option to enable permission check when copying policies

As of 7.2.3, a new command is added in the CLI:

```
config system global
    set no-copy-permission-check {enable | disable}
end
```

By default, this is set to `disable`. When set to `enable`, a check is performed when copying policies to prevent changing global device objects if the user does not have permission.

## Management Extensions visibility in the GUI

As of FortiManager 7.2.3, the *Management Extensions* pane is only visible in the GUI when docker status is enabled and at least one management extension application (MEA) is enabled and downloaded. For more information about enabling and using the MEAs, see the Management Extensions documentation in the [FortiManager Documents Library](#).

## FortiManager creates faulty dynamic mapping for VPN manager interface during PP import

If policy changes are made directly on the FortiGates, the subsequent PP import creates faulty dynamic mappings for *VPN Manager*.

It is strongly recommended to create a fresh backup of the FortiManager's configuration prior to this workaround. Perform the following command to check & repair the FortiManager's configuration database:

```
diagnose cdb check policy-packages <adom>
```

After executing this command, FortiManager will remove the invalid mappings of vpnmgr interfaces.

## SD-WAN Orchestrator removed in 7.2

Starting in 7.2.0, the SD-WAN Orchestrator is no longer available in FortiManager. Instead, you can use the *SD-WAN Overlay Template* wizard to configure your SD-WAN overlay network.

For more information, see [SD-WAN Overlay Templates](#) in the FortiManager Administration Guide.

## Changes to FortiManager meta fields

Beginning in 7.2.0, FortiManager supports policy object metadata variables.

When upgrading from FortiManager 7.0 to 7.2.0 and later, FortiManager will automatically create ADOM-level metadata variable policy objects for meta fields previously configured in System Settings that have per-device mapping configurations detected. Objects using the meta field, for example CLI templates, are automatically updated to use the new metadata variable policy objects.

Meta fields in *System Settings* can continue to be used as comments/tags for configurations.

For more information, see [ADOM-level meta variables for general use in scripts, templates, and model devices](#).

## Setup wizard requires FortiCare registration

Starting in FortiManager 7.2.1, the FortiManager Setup wizard requires you to complete the *Register with FortiCare* step before you can access the FortiManager appliance or VM. Previously the step was optional.

For FortiManager units operating in a closed environment, contact customer service to receive an entitlement file, and then load the entitlement file to FortiManager by using the CLI.

## Access lists as ADOM-level objects

Starting in 7.2.0, FortiManager supports IPv4 and IPv6 access lists as ADOM-level object configurations from FortiGate. Previously, access lists were controlled by the device database/FortiGate configuration.

After upgrading to 7.2.0 from an earlier release, the next time you install changes to a FortiGate device with an IPv4 or IPv6 access list, FortiManager will purge the device database/FortiGate configuration which may have previously contained the access list. To address this, administrators can re-import the FortiGate policy configuration to an ADOM's policy package or re-create the IPv4/IPv6 access list in the original package.

## View Mode is disabled in policies when policy blocks are used

When policy blocks are added to a policy package, the *View Mode* option is no longer available, and policies in the table cannot be arranged by *Interface Pair View*. This occurs because policy blocks typically contain policies with multiple interfaces, however, *View Mode* is still disabled even when policy blocks respect the interface pair.

## Reconfiguring Virtual Wire Pairs (VWP)

A conflict can occur between the ADOM database and device database when a Virtual Wire Pair (VWP) is installed on a managed FortiGate that already has a configured VWP in the device database. This can happen when an existing VWP has been reconfigured or replaced.

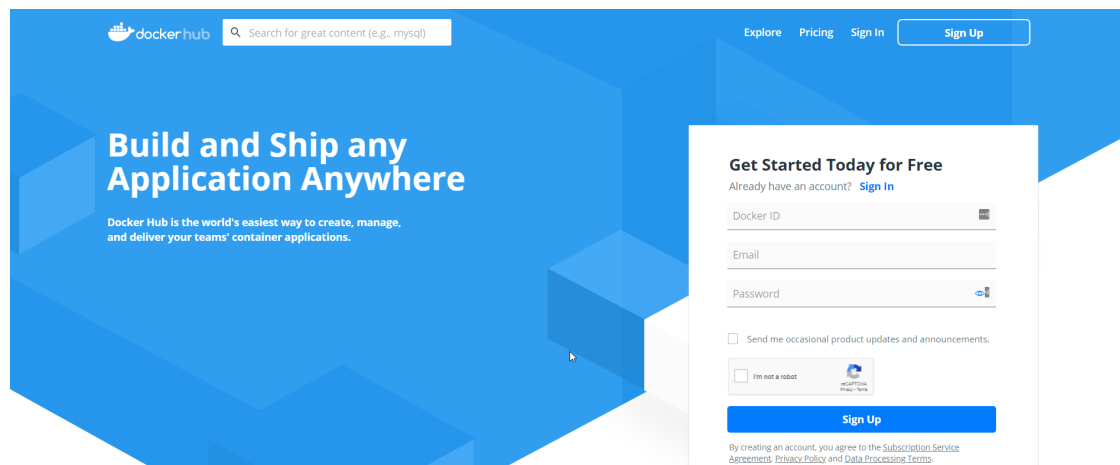
Before installing the VWP, you must first remove the old VWP from the device's database, otherwise a policy and object validation error may occur during installation. You can remove the VWP from the device database by going to *Device Manager > Device & Groups*, selecting the managed device, and removing the VWP from *System > Interface*.

## Fortinet verified publisher docker image

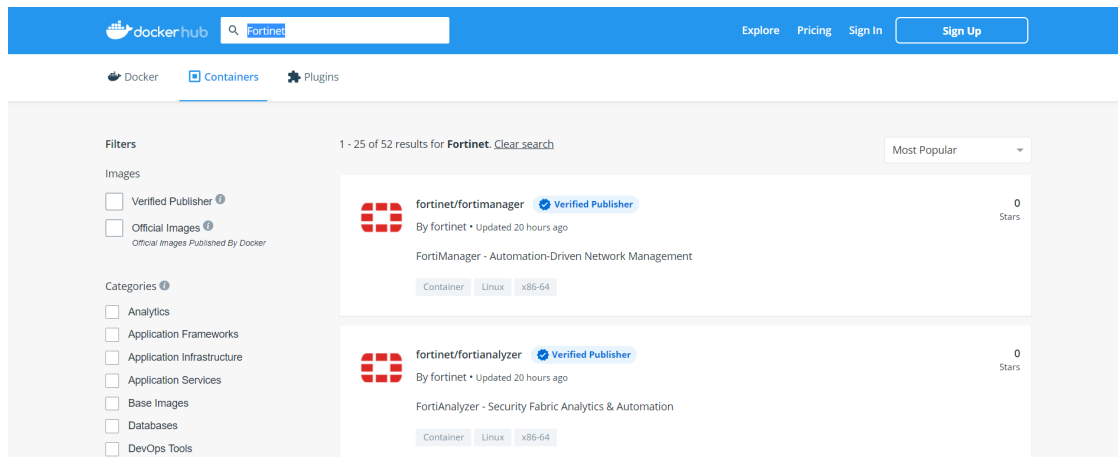
FortiManager docker images are available for download from Fortinet's Verified Publisher public repository on dockerhub.

### To download the FortiManager image from dockerhub:

1. Go to dockerhub at <https://hub.docker.com/>.  
The dockerhub home page is displayed.

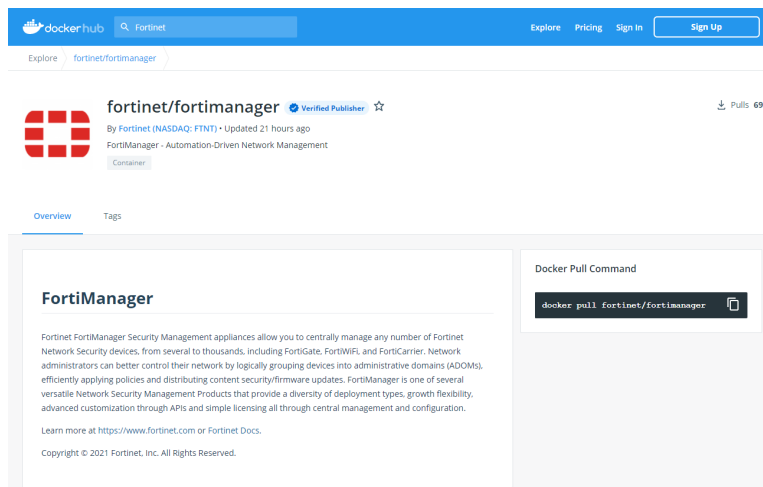


2. In the banner, click *Explore*.
3. In the search box, type *Fortinet*, and press *Enter*.  
The *fortinet/fortimanager* and *fortinet/fortianalyzer* options are displayed.



4. Click *fortinet/fortimanager*.

The *fortinet/fortimanager* page is displayed, and two tabs are available: *Overview* and *Tags*. The *Overview* tab is selected by default.



5. On the *Overview* tab, copy the docker pull command, and use it to download the image.

The CLI command from the *Overview* tab points to the latest available image. Use the *Tags* tab to access different versions when available.

## Scheduling firmware upgrades for managed devices

Starting in FortiManager 7.0.0, firmware templates should be used to schedule firmware upgrades on managed FortiGates. Attempting firmware upgrade from the FortiManager GUI by using legacy methods may ignore the *schedule upgrade* option and result in FortiGates being upgraded immediately.

## Modifying the interface status with the CLI

Starting in version 7.0.1, the CLI to modify the interface status has been changed from *up/down* to *enable/disable*.

For example:

```
config system interface
  edit port2
    set status <enable/disable>
  next
end
```

## SD-WAN with upgrade to 7.0

Due to design change with SD-WAN Template, upgrading to FortiManager 7.0 may be unable to maintain dynamic mappings for all SD-WAN interface members. Please reconfigure all the missing interface mappings after upgrade.

## Citrix XenServer default limits and upgrade

Citrix XenServer limits ramdisk to 128M by default. However the FMG-VM64-XEN image is larger than 128M. Before updating to FortiManager 6.4, increase the size of the ramdisk setting on Citrix XenServer.

**To increase the size of the ramdisk setting:**

1. On Citrix XenServer, run the following command:  
`xenstore-write /mh/limits/pv-ramdisk-max-size 536,870,912`
2. Confirm the setting is in effect by running `xenstore-ls`.  
-----  
`limits = ""`  
`pv-kernel-max-size = "33554432"`  
`pv-ramdisk-max-size = "536,870,912"`  
`boot-time = ""`  
-----
3. Remove the pending files left in `/run/xen/pygrub`.



The ramdisk setting returns to the default value after rebooting.

---

## Multi-step firmware upgrades

Prior to using the FortiManager to push a multi-step firmware upgrade, confirm the upgrade path matches the path outlined on our support site. To confirm the path, please run:

```
dia fwmanager show-dev-upgrade-path <device name> <target firmware>
```

Alternatively, you can push one firmware step at a time.

## Hyper-V FortiManager-VM running on an AMD CPU

A Hyper-V FMG-VM running on a PC with an AMD CPU may experience a kernel panic. Fortinet recommends running VMs on an Intel-based PC.

## SSLv3 on FortiManager-VM64-AWS

Due to known vulnerabilities in the SSLv3 protocol, FortiManager-VM64-AWS only enables TLSv1 by default. All other models enable both TLSv1 and SSLv3. If you wish to disable SSLv3 support, please run:

```
config system global
set ssl-protocol tlsv1
end
```

# Upgrade Information



Prior to upgrading your FortiManager, please review the FortiManager Upgrade Guide in detail as it includes all of the necessary steps and associated details required to upgrade your FortiManager device or VM.

See [FortiManager 7.2.4 Upgrade Guide](#).

You can upgrade FortiManager 7.0.1 or later directly to 7.2.4.



Before upgrading FortiManager, check ADOM versions. Check the ADOM versions supported by the destination firmware and the current firmware. If the current firmware uses ADOM versions not supported by the destination firmware, upgrade ADOM versions in FortiManager before upgrading FortiManager to the destination firmware version.

For example, FortiManager 7.0 supports ADOM versions 6.2, 6.4, and 7.0, but FortiManager 7.2 supports ADOM versions 6.4, 7.0, and 7.2. Before you upgrade FortiManager 7.0 to 7.2, ensure that all ADOM 6.2 versions have been upgraded to ADOM version 6.4 or later. See [FortiManager 7.2.4 Upgrade Guide](#).

This section contains the following topics:

- [Downgrading to previous firmware versions on page 16](#)
- [Firmware image checksums on page 16](#)
- [FortiManager VM firmware on page 17](#)
- [SNMP MIB files on page 18](#)

## Downgrading to previous firmware versions

FortiManager does not provide a full downgrade path. You can downgrade to a previous firmware release by using the GUI or CLI, but doing so results in configuration loss. A system reset is required after the firmware downgrade process has completed. To reset the system, use the following CLI commands via a console port connection:

```
execute reset {all-settings | all-except-ip}  
execute format {disk | disk-ext4 | disk-ext3}
```

## Firmware image checksums

The MD5 checksums for all Fortinet software and firmware releases are available at the Customer Service & Support portal, <https://support.fortinet.com>. After logging in, go to *Download > Firmware Image Checksums*, enter the image file name including the extension, and select *Get Checksum Code*.



## FortiManager VM firmware

Fortinet provides FortiManager VM firmware images for Amazon AWS, Amazon AWSOnDemand, Citrix and Open Source XenServer, Linux KVM, Microsoft Hyper-V Server, and VMware ESX/ESXi virtualization environments.

### Amazon Web Services

- The 64-bit Amazon Machine Image (AMI) is available on the AWS marketplace.

### Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.OpenXen.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains the QCOW2 file for the Open Source Xen Server.
- `.out.CitrixXen.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains the Citrix XenServer Virtual Appliance (XVA), Virtual Hard Disk (VHD), and OVF files.

### Google Cloud Platform

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.gcp.zip`: Download the 64-bit package for a new FortiManager VM installation.

### Linux KVM

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.kvm.zip`: Download the 64-bit package for a new FortiManager VM installation. This package contains QCOW2 that can be used by qemu.

### Microsoft Azure

The files for Microsoft Azure have AZURE in the filenames, for example `<product>_VM64_AZURE-v<number>-build<number>-FORTINET.out.hyperv.zip`.

- `.out`: Download the firmware image to upgrade your existing FortiManager VM installation.

### Microsoft Hyper-V Server

The files for Microsoft Hyper-V Server have HV in the filenames, for example, `<product>_VM64_HV-v<number>-build<number>-FORTINET.out.hyperv.zip`.

- `.out`: Download the firmware image to upgrade your existing FortiManager VM installation.
- `.hyperv.zip`: Download the package for a new FortiManager VM installation. This package contains a Virtual Hard Disk (VHD) file for Microsoft Hyper-V Server.



Microsoft Hyper-V 2016 is supported.

---

### Oracle Private Cloud

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiManager VM installation.
- `.out.opc.zip`: Download the 64-bit package for a new FortiManager VM installation.

### VMware ESX/ESXi

- `.out`: Download the 64-bit firmware image to upgrade your existing VM installation.
- `.ovf.zip`: Download either the 64-bit package for a new VM installation. This package contains an Open Virtualization Format (OVF) file for VMware and two Virtual Machine Disk Format (VMDK) files used by the OVF file during deployment.



For more information see the [FortiManager Data Sheet](#) available on the Fortinet web site. VM installation guides are available in the [Fortinet Document Library](#).

---

## SNMP MIB files

You can download the *FORTINET-FORTIMANAGER-FORTIANALYZER.mib* MIB file in the firmware image file folder. The Fortinet Core MIB file is located in the main FortiManager version 5.00 file folder.

# Product Integration and Support

This section lists FortiManager 7.2.4 support of other Fortinet products. It also identifies what FortiManager features are supported for managed platforms and what languages FortiManager supports. It also lists which Fortinet models can be managed by FortiManager.

The section contains the following topics:

- [Supported software on page 19](#)
- [Feature support on page 24](#)
- [Language support on page 24](#)
- [Supported models on page 25](#)

## Supported software

FortiManager 7.2.4 supports the following software:

- [Web browsers on page 20](#)
- [FortiOS and FortiOS Carrier on page 20](#)
- [FortiADC on page 20](#)
- [FortiAnalyzer on page 20](#)
- [FortiAnalyzer-BigData on page 21](#)
- [FortiAuthenticator on page 21](#)
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- [FortiSwitch ATCA on page 23](#)
- [FortiTester on page 23](#)
- [FortiWeb on page 23](#)
- [Virtualization on page 23](#)



To confirm that a device model or firmware version is supported by the current firmware version running on FortiManager, run the following CLI command:

```
diagnose dvm supported-platforms list
```

---



Always review the Release Notes of the supported platform firmware version before upgrading your device.

---

## Web browsers

FortiManager 7.2.4 supports the following web browsers:

- Microsoft Edge 114
- Mozilla Firefox version 96
- Google Chrome version 114

Other web browsers may function correctly, but are not supported by Fortinet.

## FortiOS and FortiOS Carrier



The *FortiManager Release Notes* communicate support for FortiOS versions that are available at the time of the FortiManager 7.2.4 release. For additional information about other supported FortiOS versions, please refer to the FortiManager compatibility chart in the [Fortinet Document Library](#).

See [FortiManager compatibility with FortiOS](#).

---

FortiManager 7.2.4 supports the following versions of FortiOS and FortiOS Carrier:

- 7.2.0 to 7.2.6
- 7.0.0 to 7.0.12
- 6.4.0 to 6.4.14

## FortiADC

FortiManager 7.2.4 supports the following versions of FortiADC:

- 7.2.0 and later
- 7.1.0 and later
- 7.0.0 and later

## FortiAnalyzer

FortiManager 7.2.4 supports the following versions of FortiAnalyzer:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later

## FortiAnalyzer-BigData

FortiManager 7.2.4 supports the following versions of FortiAnalyzer-BigData:

- 7.2.0 and later
- 7.0.0 and later

## FortiAuthenticator

FortiManager 7.2.4 supports the following versions of FortiAuthenticator:

- 6.4.0 and later
- 6.3.0 and later
- 6.2.0 and later

## FortiCache

FortiManager 7.2.4 supports the following versions of FortiCache:

- 4.2.0 and later
- 4.1.0 and later
- 4.0.0 and later

## FortiClient

FortiManager 7.2.4 supports the following versions of FortiClient:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later
- 6.2.1 and later

## FortiDDoS

FortiManager 7.2.4 supports the following versions of FortiDDoS:

- 6.4.0 and later
- 6.3.0 and later
- 6.2.0 and later

Limited support. For more information, see [Feature support on page 24](#).

## FortiDeceptor

FortiManager 7.2.4 supports the following versions of FortiDeceptor:

- 5.0.0 and later
- 4.3.0 and later
- 4.2.0 and later

## FortiFirewall and FortiFirewallCarrier

FortiManager 7.2.4 supports the following versions of FortiFirewall and FortiFirewallCarrier:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later

## FortiMail

FortiManager 7.2.4 supports the following versions of FortiMail:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later

## FortiProxy

FortiManager 7.2.4 supports configuration management for the following versions of FortiProxy:

- 7.2.2
- 7.0.7 to 7.0.10



Configuration management support is identified as *Management Features* in these release notes. See [Feature support on page 24](#).

---

FortiManager 7.2.4 supports logs from the following versions of FortiProxy:

- 7.2.0 to 7.2.5
- 7.0.0 to 7.0.11
- 2.0.0 to 2.0.5
- 1.2.0 to 1.2.13
- 1.1.0 to 1.1.6
- 1.0.0 to 1.0.7

## FortiSandbox

FortiManager 7.2.4 supports the following versions of FortiSandbox:

- 4.2.0 and later
- 4.0.0 and 4.0.1

- 3.2.0 and later

## FortiSOAR

FortiManager 7.2.4 supports the following versions of FortiSOAR:

- 7.3.0 and later
- 7.2.0 and later
- 7.0.0 and later

## FortiSwitch ATCA

FortiManager 7.2.4 supports the following versions of FortiSwitch ATCA:

- 5.2.0 and later
- 5.0.0 and later
- 4.3.0 and later

## FortiTester

FortiManager 7.2.4 supports the following versions of FortiTester:

- 7.1.0 and later
- 7.0.0 and later
- 4.2.0 and later

## FortiWeb

FortiManager 7.2.4 supports the following versions of FortiWeb:

- 7.2.0 and later
- 7.0.0 and later
- 6.4.0 and later

## Virtualization

FortiManager 7.2.4 supports the following virtualization software:

- Amazon Web Service AMI, Amazon EC2, Amazon EBS
- Citrix XenServer 7.2
- Google Cloud Platform
- Linux KVM Redhat 7.1
- Microsoft Azure
- Microsoft Hyper-V Server 2012, 2016, and 2019
- Nutanix AHV (AOS 5.10.5)
- OpenSource XenServer 4.2.5

- Oracle Private Cloud
- VMware ESXi versions 6.5 and later

## Feature support

The following table lists FortiManager feature support for managed platforms.

| Platform              | Management Features | FortiGuard Update Services | VM License Activation | Reports | Logging |
|-----------------------|---------------------|----------------------------|-----------------------|---------|---------|
| FortiGate             | ✓                   | ✓                          | ✓                     | ✓       | ✓       |
| FortiCarrier          | ✓                   | ✓                          | ✓                     | ✓       | ✓       |
| FortiADC              |                     | ✓                          | ✓                     |         |         |
| FortiAnalyzer         |                     |                            | ✓                     | ✓       | ✓       |
| FortiAuthenticator    |                     |                            |                       |         | ✓       |
| FortiCache            |                     |                            | ✓                     | ✓       | ✓       |
| FortiClient           |                     | ✓                          |                       | ✓       | ✓       |
| FortiDDoS             |                     |                            | ✓                     | ✓       | ✓       |
| FortiDeceptor         |                     | ✓                          |                       |         |         |
| FortiFirewall         | ✓                   |                            |                       |         | ✓       |
| FortiFirewall Carrier | ✓                   |                            |                       |         | ✓       |
| FortiMail             |                     | ✓                          | ✓                     | ✓       | ✓       |
| FortiProxy            | ✓                   | ✓                          | ✓                     | ✓       | ✓       |
| FortiSandbox          |                     | ✓                          | ✓                     | ✓       | ✓       |
| FortiSOAR             |                     | ✓                          | ✓                     |         |         |
| FortiSwitch ATCA      | ✓                   |                            |                       |         |         |
| FortiTester           |                     | ✓                          |                       |         |         |
| FortiWeb              |                     | ✓                          | ✓                     | ✓       | ✓       |
| Syslog                |                     |                            |                       |         | ✓       |

## Language support

The following table lists FortiManager language support information.



| Language              | GUI | Reports |
|-----------------------|-----|---------|
| English               | ✓   | ✓       |
| Chinese (Simplified)  | ✓   | ✓       |
| Chinese (Traditional) | ✓   | ✓       |
| French                | ✓   | ✓       |
| Japanese              | ✓   | ✓       |
| Korean                | ✓   | ✓       |
| Portuguese            |     | ✓       |
| Spanish               |     | ✓       |

To change the FortiManager language setting, go to *System Settings > Admin > Admin Settings*, in *Administrative Settings > Language* select the desired language on the drop-down menu. The default value is *Auto Detect*.

Russian, Hebrew, and Hungarian are not included in the default report languages. You can create your own language translation files for these languages by exporting a predefined language from FortiManager, modifying the text to a different language, saving the file as a different language name, and then importing the file into FortiManager. For more information, see the *FortiManager Administration Guide*.

## Supported models

The following tables list which FortiGate, FortiCarrier, FortiDDoS, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch ATCA, FortiWeb, FortiCache, FortiProxy, and FortiAuthenticator models and firmware versions that can be managed by a FortiManager or send logs to a FortiManager running version 7.2.4.



Software license activated LENC devices are supported, if their platforms are in the supported models list. For example, support of FG-3200D indicates support of FG-3200D-LENC.

This section contains the following topics:

- [FortiGate models on page 26](#)
- [FortiGate special branch models on page 29](#)
- [FortiCarrier models on page 30](#)
- [FortiCarrier special branch models on page 31](#)
- [FortiADC models on page 33](#)
- [FortiAnalyzer models on page 33](#)
- [FortiAnalyzer-BigData models on page 34](#)
- [FortiAuthenticator models on page 34](#)
- [FortiCache models on page 34](#)
- [FortiDDoS models on page 34](#)
- [FortiDeceptor models on page 35](#)
- [FortiFirewall models on page 35](#)

- [FortiFirewallCarrier models on page 36](#)
- [FortiMail models on page 37](#)
- [FortiProxy models on page 37](#)
- [FortiSandbox models on page 38](#)
- [FortiSOAR models on page 38](#)
- [FortiSwitch ATCA models on page 38](#)
- [FortiTester models on page 38](#)
- [FortiWeb models on page 39](#)

## FortiGate models

The following FortiGate models are released with FortiOS firmware. For information about supported FortiGate models on special branch releases of FortiOS firmware, see [FortiGate special branch models on page 29](#).

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Firmware Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiGate:</b> FortiGate-40F, FortiGate-40F-3G4G, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-DSLJ, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-70F, FortiGate-71F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-80F-POE, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-81F-POE, FortiGate-90E, FortiGate-91E, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-200F, FortiGate-201E, FortiGate-201F, FortiGate-300E, FortiGate-301E, FortiGate-400E, FortiGate-400F, FortiGate-400E-Bypass, FortiGate-401E, FortiGate-401F, FortiGate-500E, FortiGate-501E, FortiGate-600E, FortiGate-600F, FortiGate-601E, FortiGate-601F, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1000F, FortiGate-1001F, FortiGate-1100E, FortiGate-1101E, FortiGate-1500D, FortiGate-1500DT, FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-2600F, FortiGate-2601F, FortiGate-3000D, FortiGate-3000F, FortiGate-3001F, FortiGate-3100D, FortiGate-3200D, FortiGate-3200F, FortiGate-3201F, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E, FortiGate-3401E, FortiGate-3500F, FortiGate-3501F, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3700F, FortiGate-3701F, FortiGate-3800D, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F, FortiGate-4800F, FortiGate-4801F<br><b>FortiGate 5000 Series:</b> FortiGate-5001E, FortiGate-5001E1<br><b>FortiGate 6000 Series:</b> FortiGate-6000F, FortiGate-6300F, FortiGate-6300F-DC, FortiGate-6301F, FortiGate-6301F-DC, FortiGate-6500F, FortiGate-6500F-DC, FortiGate-6501F, FortiGate-6501F-DC<br><b>FortiGate 7000 Series:</b> FortiGate-7000E, FortiGate-7000F, FortiGate-7030E, FortiGate-7040E, FortiGate-7060E, FortiGate-7060E-8-DC, FortiGate-7081F, FortiGate-7121F, FortiGate-7121F-2, FortiGate-7121F-2-DC, FortiGate-7121F-DC | 7.2              |

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Firmware Version |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiGate DC:</b> FortiGate-401E-DC, FortiGate-800D-DC, FortiGate-1100E-DC, FortiGate-1500D-DC, FortiGate-1800F-DC, FortiGate-1801F-DC, FortiGate-2201E-ACDC, FortiGate-2600F-DC, FortiGate-2601F-DC, FortiGate-3000D-DC, FortiGate-3000F-DC, FortiGate-3001F-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3960E-ACDC, FortiGate-3960E-DC, FortiGate-3980E-DC, FortiGate-4200F-DC, FortiGate-4201F-DC, FortiGate-4400F-DC, FortiGate-4401F-DC<br><b>FortiWiFi:</b> FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F, FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-3G4G-POE, FWF-81F-2R-POE<br><b>FortiGate VM:</b> FortiGate-ARM64-AWS, FortiGate-ARM64-Azure, FortiGate-ARM64-GCP, FortiGate-ARM64-KVM, FortiGate-ARM64-OCI, FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-AWS, FortiGate-VM64-Azure, FortiGate-VM64-GCP, FortiGate-VM64-HV, FortiGate-VM64-IBM, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-RAXONDEMAND, FortiGate-VM64-XEN, FortiGate-VMX-Service-Manager<br><b>FortiOS-VM:</b> FOS-VM64, FOS-VM64-HV, FOS-VM64-KVM, FOS-VM64-Xen<br><b>FortiGate Rugged:</b> FGR-60F, FGR-60F-3G4G, FGR-70F, FGR-70F-3G4G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |
| <b>FortiGate:</b> FortiGate-40F, FortiGate-40F-3G4G, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-DSLJ, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-70F, FortiGate-71F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-80F-POE, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-81F-POE, FortiGate-90E, FortiGate-91E, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-200F, FortiGate-201E, FortiGate-201F, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FortiGate-400E, FortiGate-400F, FortiGate-400E-Bypass, FortiGate-401E, FortiGate-401F, FortiGate-500D, FortiGate-500E, FortiGate-501E, FortiGate-600D, FortiGate-600E, FortiGate-600F, FortiGate-601E, FortiGate-601F, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1100E, FortiGate-1101E, FortiGate-1200D, FortiGate-1500D, FortiGate-1500DT, FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-2600F, FortiGate-2601F, FortiGate-3000D, FortiGate-3000F, FortiGate-3001F, FortiGate-3100D, FortiGate-3200D, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E, FortiGate-3401E, FortiGate-3500F, FortiGate-3501F, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F,<br><b>FortiGate 5000 Series:</b> FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1<br><b>FortiGate DC:</b> FortiGate-401E-DC, FortiGate-800D-DC, FortiGate-1100E-DC, FortiGate-1500D-DC, FortiGate-1800F-DC, FortiGate-1801F-DC, FortiGate-2201E-ACDC, FortiGate-2600F-DC, FortiGate-2601F-DC, FortiGate-3000D-DC, FortiGate-3000F-DC, FortiGate-3001F-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-ACDC, FortiGate-3960E-DC, FortiGate-3980E-DC, FortiGate-4200F-DC, FortiGate-4201F-DC, FortiGate-4400F-DC, FortiGate-4401F-DC<br><b>FortiWiFi:</b> FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F, FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-3G4G-POE, FWF-81F-2R-POE | 7.0              |

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Firmware Version |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiGate VM:</b> FortiGate-ARM64-AWS, FortiGate-ARM64-KVM, FortiGate-ARM64-OCI, FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-AWS, FortiGate-VM64-Azure, FortiGate-VM64-GCP, FortiGate-VM64-HV, FortiGate-VM64-IBM, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-RAXONDEMAND, FortiGate-VM64-XEN, FortiGate-VMX-Service-Manager<br><b>FortiOS-VM:</b> FOS-VM64, FOS-VM64-HV, FOS-VM64-KVM, FOS-VM64-Xen<br><b>FortiGate Rugged:</b> FGR-60F, FGR-60F-3G4G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |
| <b>FortiGate:</b> FortiGate-40F, FortiGate-40F-3G4G, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-DSLJ, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-80F-POE, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-81F-POE, FortiGate-90E, FortiGate-91E, FortiGate-100D, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-200F, FortiGate-201E, FortiGate-201F, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FortiGate-400E, FortiGate-400E-Bypass, FortiGate-401E, FortiGate-500D, FortiGate-500E, FortiGate-501E, FortiGate-600D, FortiGate-600E, FortiGate-601E, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1100E, FortiGate-1101E, FortiGate-1200D, FortiGate-1500D, FortiGate-1500DT, FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-2600F, FortiGate-2601F, FortiGate-3000D, FortiGate-3100D, FortiGate-3200D, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E, FortiGate-3401E, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F,<br><b>FortiGate 5000 Series:</b> FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1<br><b>FortiGate DC:</b> FortiGate-401E-DC, FortiGate-800D-DC, FortiGate-1100E-DC, FortiGate-1500D-DC, FortiGate-1800F-DC, FortiGate-1801F-DC, FortiGate-2201E-ACDC, FortiGate-2600F-DC, FortiGate-2601F-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-ACDC, FortiGate-3960E-DC, FortiGate-3980E-DC, FortiGate-4200F-DC, FortiGate-4201F-DC, FortiGate-4400F-DC, FortiGate-4401F-DC<br><b>FortiGate Hardware Low Encryption:</b> FortiGate-100D-LENC<br><b>FortiWiFi:</b> FWF-40F, FWF-40F-3G4G, FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F, FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-3G4G-POE, FWF-81F-2R-POE<br><b>FortiGate VM:</b> FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-ALIONDEMAND, FortiGate-VM64-AWS, FortiGate-VM64-AZUREONDEMAND, FortiGate-VM64-Azure, FortiGate-VM64-GCP, VM64-GCPONDEMAND, FortiGate-VM64-HV, FortiGate-VM64-IBM, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-RAXONDEMAND, FortiGate-VM64-XEN, FortiGate-VMX-Service-Manager<br><b>FortiOS-VM:</b> FOS-VM64, FOS-VM64-HV, FOS-VM64-KVM, FOS-VM64-Xen<br><b>FortiGate Rugged:</b> FGR-60F, FGR-60F-3G4G | 6.4              |

## FortiGate special branch models

The following FortiGate models are released on special branches of FortiOS. FortiManager version 7.2.4 supports these models on the identified FortiOS version and build number.

For information about supported FortiGate models released with FortiOS firmware, see [FortiGate models on page 26](#).

### FortiOS 7.0

| FortiGate Model                                                                                                                                                     | FortiOS Version | FortiOS Build |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|
| FortiGate-80F-DSL                                                                                                                                                   | 7.0.12          | 6689          |
| FortiGate-90G, FortiGate-91G                                                                                                                                        | 7.0.12          | 6708          |
| FortiGate-120G, FortiGate-121G                                                                                                                                      | 7.0.12          | 5334          |
| FortiGate-900G, FortiGate-901G                                                                                                                                      | 7.0.12          | 6728          |
| FortiGate-1000F, FortiGate-1001F                                                                                                                                    | 7.0.12          | 6660          |
| FortiGate-3200F, FortiGate-3201F                                                                                                                                    | 7.0.12          | 6661          |
| FortiGate-3700F, FortiGate-3701F                                                                                                                                    | 7.0.12          | 6661          |
| FortiGate-4800F, FortiGate-4801F                                                                                                                                    | 7.0.12          | 6661          |
| FortiGate-6000F, FortiGate-6300F, FortiGate-6300F-DC, FortiGate-6301F, FortiGate-6301F-DC, FortiGate-6500F, FortiGate-6500F-DC, FortiGate-6501F, FortiGate-6501F-DC | 7.0.12          | 0163          |
| FortiGate-7000E, FortiGate-7030E, FortiGate-7040E, FortiGate-7060E, FortiGate-7060E-8-DC                                                                            | 7.0.12          | 0163          |
| FortiGate-7000F, FortiGate-7081F, FortiGate-7121F, FortiGate-7121F-2, FortiGate-7121F-2-DC, FortiGate-7121F-DC                                                      | 7.0.12          | 0163          |
| FortiGateRugged-70F                                                                                                                                                 | 7.0.12          | 6668          |
| FortiGateRugged-70F-3G4G                                                                                                                                            | 7.0.12          | 6669          |
| FortiWiFi-80F-2R-3G4G-DSL, FortiWiFi-81F-2R-3G4G-DSL                                                                                                                | 7.0.12          | 6690          |

### FortiOS 6.4

| FortiGate Model                | FortiOS Version | FortiOS Build |
|--------------------------------|-----------------|---------------|
| FortiGate-400F, FortiGate-401F | 6.4.13          | 5455          |

| FortiGate Model                                                                                                                                                                 | FortiOS Version | FortiOS Build |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|
| FortiGate-600F, FortiGate-601F                                                                                                                                                  | 6.4.13          | 5455          |
| FortiGate-3500F                                                                                                                                                                 | 6.4.6           | 5886          |
| FortiGate-3501F                                                                                                                                                                 | 6.4.6           | 6132          |
| FortiGate-6000F, FortiGate-6300F,<br>FortiGate-6300F-DC, FortiGate-6301F,<br>FortiGate-6301F-DC, FortiGate-6500F,<br>FortiGate-6500F-DC, FortiGate-6501F,<br>FortiGate-6501F-DC | 6.4.13          | 1926          |
| FortiGate-7000E, FortiGate-7030E,<br>FortiGate-7040E, FortiGate-7060E,<br>FortiGate-7060E-8-DC                                                                                  | 6.4.13          | 1926          |
| FortiGate-7000F, FortiGate-7081F,<br>FortiGate-7121F, FortiGate-7121F-2,<br>FortiGate-7121F-2-DC, FortiGate-7121F-DC                                                            | 6.4.13          | 1926          |
| FortiWiFi-80F-2R-3G4G-DSL                                                                                                                                                       | 6.4.7           | 5003          |

## FortiCarrier models

The following FortiCarrier models are released with FortiCarrier firmware.

For information about supported FortiCarrier models on special branch releases of FortiCarrier firmware, see [FortiCarrier special branch models on page 31](#).

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Firmware Version |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiCarrier:</b> FortiCarrier-2600F, FortiCarrier-2601F, FortiCarrier-3000D, FortiCarrier-3000F, FortiCarrier-3001F, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3200F, FortiCarrier-3201F, FortiCarrier-3300E, FortiCarrier-3301E, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3500F, FortiCarrier-3501F, FortiCarrier-3600E, FortiCarrier-3601E, FortiCarrier-3700D, FortiCarrier-3700F, FortiCarrier-3701F, FortiCarrier-3800D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-4200F, FortiCarrier-4201F, FortiCarrier-4400F, FortiCarrier-4401F, FortiCarrier-4800F, FortiCarrier-4801F, FortiCarrier-5001E, FortiCarrier-5001E1<br><b>FortiCarrier 6000 Series:</b> FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6300F-DC, FortiCarrier-6301F, FortiCarrier-6301F-DC, FortiCarrier-6500F, FortiCarrier-6500F-DC, FortiCarrier-65001F, FortiCarrier-6501F-DC<br><b>FortiCarrier 7000 Series:</b> FortiCarrier-7000E, FortiCarrier-7000F, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC, FortiCarrier-7081F, FortiCarrier-7121F, FortiCarrier-7121F-2, FortiCarrier-7121F-2-DC, FortiCarrier-7121F-DC | 7.2              |

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Firmware Version |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiCarrier-DC:</b> FortiCarrier-2600F-DC, FortiCarrier-2601F-DC, FortiCarrier-3000D-DC, FortiCarrier-3000F-DC, FortiCarrier-3001F-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3600E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3960E-DC, FortiCarrier-3980E-DC, FortiCarrier-4200F-DC, FortiCarrier-4201F-DC, FortiCarrier-4400F-DC, FortiCarrier-4401F-DC<br><b>FortiCarrier-VM:</b> FortiCarrier-ARM64-AWS, FortiCarrier-ARM64-Azure, FortiCarrier-ARM64-GCP, FortiCarrier-ARM64-KVM, FortiCarrier-ARM64-OCI, FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-IBM, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen                                                                                                                                                                                                                                                                                                             |                  |
| <b>FortiCarrier:</b> FortiCarrier-3000D, FortiCarrier-3000F, FortiCarrier-3001F, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3300E, FortiCarrier-3301E, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3500F, FortiCarrier-3501F, FortiCarrier-3600E, FortiCarrier-3601E, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3815D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-5001D, FortiCarrier-5001E, FortiCarrier-5001E1<br><b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3600E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC, FortiCarrier-3980E-DC<br><b>FortiCarrier-VM:</b> FortiCarrier-ARM64-AWS, FortiCarrier-ARM64-KVM, FortiCarrier-ARM64-OCI, FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-IBM, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen, FortiCarrier-ARM64-KVM | 7.0              |
| <b>FortiCarrier:</b> FortiCarrier-3000D, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3300E, FortiCarrier-3301E, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3500F, FortiCarrier-3501F, FortiCarrier-3600E, FortiCarrier-3601E, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3815D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-5001D, FortiCarrier-5001E, FortiCarrier-5001E1<br><b>FortiCarrier-DC:</b> FortiCarrier-3000D-DC, FortiCarrier-3000F-DC, FortiCarrier-3001F-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3600E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC, FortiCarrier-3980E-DC<br><b>FortiCarrier-VM:</b> FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-IBM, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen                                                                                           | 6.4              |

## FortiCarrier special branch models

The following FortiCarrier models are released on special branches of FortiOS Carrier. FortiManager version 7.2.4 supports these models on the identified FortiOS Carrier version and build number.

For information about supported FortiCarrier models released with FortiOS Carrier firmware, see [FortiCarrier models on page 30](#).

## FortiCarrier 7.0

| FortiCarrier Model                                                                                                                                                                              | FortiCarrier Version | FortiCarrier Build |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|
| FortiCarrier-3200F, FortiCarrier-3201F                                                                                                                                                          | 7.0.12               | 6661               |
| FortiCarrier-3700F, FortiCarrier-3701F                                                                                                                                                          | 7.0.12               | 6661               |
| FortiCarrier-4800F, FortiCarrier-4801F                                                                                                                                                          | 7.0.12               | 6661               |
| FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6300F-DC, FortiCarrier-6301F, FortiCarrier-6301F-DC, FortiCarrier-6500F, FortiCarrier-6500F-DC, FortiCarrier-65001F, FortiCarrier-6501F-DC | 7.0.12               | 0163               |
| FortiCarrier-7000E, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC                                                                                         | 7.0.12               | 0163               |
| FortiCarrier-7000F, FortiCarrier-7081F, FortiCarrier-7121F, FortiCarrier-7121F-2, FortiCarrier-7121F-2-DC, FortiCarrier-7121F-DC                                                                | 7.0.12               | 0163               |

## FortiCarrier 6.4

| FortiCarrier Model                                                                                                                                                                              | FortiCarrier Version | FortiCarrier Build |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|
| FortiCarrier-3500F                                                                                                                                                                              | 6.4.6                | 5886               |
| FortiCarrier-3501F                                                                                                                                                                              | 6.4.6                | 6132               |
| FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6300F-DC, FortiCarrier-6301F, FortiCarrier-6301F-DC, FortiCarrier-6500F, FortiCarrier-6500F-DC, FortiCarrier-65001F, FortiCarrier-6501F-DC | 6.4.13               | 1926               |
| FortiCarrier-7000E, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC                                                                                         | 6.4.13               | 1926               |
| FortiCarrier-7000F, FortiCarrier-7081F, FortiCarrier-7121F, FortiCarrier-7121F-2, FortiCarrier-7121F-2-DC, FortiCarrier-7121F-DC                                                                | 6.4.13               | 1926               |



## FortiADC models

| Model                                                                                                                                                                                                                                                                                                                                                                    | Firmware Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiADC:</b> FortiADC-100F, FortiADC-120F, FortiADC-200D, FortiADC-200F, FortiADC-220F, FortiADC-300D, FortiADC-300F, FortiADC-400D, FortiADC-400F, FortiADC-700D, FortiADC-1000F, FortiADC-1200F, FortiADC-1500D, FortiADC-2000D, FortiADC-2000F, FortiADC-2200F, FortiADC-4000D, FortiADC-4000F, FortiADC-4200F, FortiADC-5000F<br><b>FortiADC VM:</b> FortiADC-VM | 7.0, 7.1, 7.2    |

## FortiAnalyzer models

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Firmware Version |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiAnalyzer:</b> FortiAnalyzer-150G, FortiAnalyzer-300F, FortiAnalyzer-300G, FortiAnalyzer-400E, FortiAnalyzer-800F, FortiAnalyzer-800G, FortiAnalyzer-1000F, FortiAnalyzer-2000E, FortiAnalyzer-3000E, FortiAnalyzer-3000F, FortiAnalyzer-3000G, FortiAnalyzer-3500E, FortiAnalyzer-3500F, FortiAnalyzer-3500G, FortiAnalyzer-3700F, FortiAnalyzer-3700G, FortiAnalyzer-3900E<br><b>FortiAnalyzer VM:</b> FortiAnalyzer-DOCKER, FortiAnalyzer-VM64, FortiAnalyzer-VM64-ALI, FortiAnalyzer-VM64-AWS, FortiAnalyzer-VM64-AWS-OnDemand, FortiAnalyzer-VM64-Azure, FortiAnalyzer-VM64-Azure-OnDemand, FortiAnalyzer-VM64-GCP, FortiAnalyzer-VM64-HV, FortiAnalyzer-VM64-IBM, FortiAnalyzer-VM64-KVM, FortiAnalyzer-VM64-OPC, FortiAnalyzer-VM64-Xen                                                                                   | 7.2              |
| <b>FortiAnalyzer:</b> FortiAnalyzer-150G, FortiAnalyzer-200F, FortiAnalyzer-300F, FortiAnalyzer-300G, FortiAnalyzer-400E, FortiAnalyzer-800F, FortiAnalyzer-800G, FortiAnalyzer-1000F, FortiAnalyzer-2000E, FortiAnalyzer-3000E, FortiAnalyzer-3000F, FortiAnalyzer-3000G, FortiAnalyzer-3500E, FortiAnalyzer-3500F, FortiAnalyzer-3500G, FortiAnalyzer-3700F, FortiAnalyzer-3700G, FortiAnalyzer-3900E<br><b>FortiAnalyzer VM:</b> FortiAnalyzer-DOCKER, FortiAnalyzer-VM64, FortiAnalyzer-VM64-ALI, FortiAnalyzer-VM64-ALI-OnDemand, FortiAnalyzer-VM64-AWS, FortiAnalyzer-VM64-Azure, FortiAnalyzer-VM64-Azure-OnDemand, FortiAnalyzer-VM64-GCP, FortiAnalyzer-VM64-GCP-OnDemand, FortiAnalyzer-VM64-HV, FortiAnalyzer-VM64-IBM, FortiAnalyzer-VM64-KVM, FortiAnalyzer-VM64-OPC, FortiAnalyzer-VM64-Xen                              | 7.0              |
| <b>FortiAnalyzer:</b> FortiAnalyzer-150G, FortiAnalyzer-200F, FortiAnalyzer-300F, FortiAnalyzer-300G, FortiAnalyzer-400E, FortiAnalyzer-800F, FortiAnalyzer-800G, FortiAnalyzer-1000E, FortiAnalyzer-1000F, FortiAnalyzer-2000E, FortiAnalyzer-3000E, FortiAnalyzer-3000F, FortiAnalyzer-3000G, FortiAnalyzer-3500E, FortiAnalyzer-3500F, FortiAnalyzer-3500G, FortiAnalyzer-3700F, FortiAnalyzer-3700G, FortiAnalyzer-3900E<br><b>FortiAnalyzer VM:</b> FortiAnalyzer-DOCKER, FortiAnalyzer-VM64, FortiAnalyzer-VM64-ALI, FortiAnalyzer-VM64-ALI-OnDemand, FortiAnalyzer-VM64-AWS, FortiAnalyzer-VM64-AWSOnDemand, FortiAnalyzer-VM64-Azure, FortiAnalyzer-VM64-Azure-OnDemand, FortiAnalyzer-VM64-GCP, FortiAnalyzer-VM64-GCP-OnDemand, FortiAnalyzer-VM64-HV, FortiAnalyzer-VM64-KVM, FortiAnalyzer-VM64-OPC, FortiAnalyzer-VM64-Xen | 6.4              |

## FortiAnalyzer-BigData models

| Model                                                                                                                    | Firmware Version |
|--------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiAnalyzer-BigData:</b> FortiAnalyzer-BigData-4500F<br><b>FortiAnalyzer-BigData VM:</b> FortiAnalyzer-BigData-VM64 | 7.2              |
| <b>FortiAnalyzer-BigData:</b> FortiAnalyzer-BigData-4500F<br><b>FortiAnalyzer-BigData VM:</b> FortiAnalyzer-BigData-VM64 | 7.0              |

## FortiAuthenticator models

| Model                                                                                                                                                                                           | Firmware Version |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiAuthenticator:</b> FAC-200D, FAC-200E, FAC-300F, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000D, FAC-3000E, FAC-3000F<br><b>FortiAuthenticator VM:</b> FAC-VM | 6.4              |
| <b>FortiAuthenticator:</b> FAC-200D, FAC-200E, FAC-300F, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000D, FAC-3000E<br><b>FortiAuthenticator VM:</b> FAC-VM            | 6.2, 6.3         |

## FortiCache models

| Model                                                                                                                                              | Firmware Version |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiCache:</b> FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3000E, FCH-3900E<br><b>FortiCache VM:</b> FCH-KVM, FCH-VM64 | 4.1, 4.2         |
| <b>FortiCache:</b> FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3900E<br><b>FortiCache VM:</b> FCH-VM64                     | 4.0              |

## FortiDDoS models

| Model                                                                                                                    | Firmware Version |
|--------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiDDoS:</b> FortiDDoS-200F, FortiDDoS-1500F, FortiDDoS-2000F, FortiDDoS-3000F<br><b>FortiDDoS VM:</b> FortiDDoS-VM | 6.4              |
| <b>FortiDDoS:</b> FortiDDoS-200F, FortiDDoS-1500F, FortiDDoS-2000F<br><b>FortiDDoS VM:</b> FortiDDoS-VM                  | 6.3              |
| <b>FortiDDoS:</b> FortiDDoS-200F, FortiDDoS-1500F<br><b>FortiDDoS VM:</b> FortiDDoS-VM                                   | 6.2              |

## FortiDeceptor models

| Model                                                                                                                             | Firmware Version |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiDeceptor:</b> FDC-100G, FDC-1000F, FDC-1000G<br><b>FortiDeceptor Rugged:</b> FDCR-100G<br><b>FortiDeceptor VM:</b> FDC-VM | 5.0              |
| <b>FortiDeceptor:</b> FDC-1000F, FDC-1000G<br><b>FortiDeceptor Rugged:</b> FDCR-100G<br><b>FortiDeceptor VM:</b> FDC-VM           | 4.3              |
| <b>FortiDeceptor:</b> FDC-1000F, FDC-1000G<br><b>FortiDeceptor Rugged:</b> FDCR-100G<br><b>FortiDeceptor VM:</b> FDC-VM           | 4.2              |

## FortiFirewall models

Some of the following FortiFirewall models are released on special branches of FortiFirewall firmware. FortiManager version 7.2.4 supports these models on the identified FortiFirewall firmware version and build number.

### FortiFirewall 7.2

| Model                                                                                                                                                      | Firmware Version |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiFirewall:</b> FortiFirewall-3980E, FortiFirewall-4200F, FortiFirewall-4400F<br><b>FortiFirewall-VM:</b> FortiFirewall-VM64, FortiFirewall-VM64-KVM | 7.2              |

### FortiFirewall 7.0

| Model                                                                                        | Firmware Version | Firmware Build (for special branch) |
|----------------------------------------------------------------------------------------------|------------------|-------------------------------------|
| <b>FortiFirewall:</b> FortiFirewall-3001F                                                    | 7.0.10           | 4955                                |
| <b>FortiFirewall:</b> FortiFirewall-3501F                                                    | 7.0.10           | 4940                                |
| <b>FortiFirewall:</b> FortiFirewall-3980E<br><b>FortiFirewall DC:</b> FortiFirewall-3980E-DC | 7.0              |                                     |
| <b>FortiFirewall-VM:</b> FortiFirewall-VM64, FortiFirewall-VM64-KVM                          | 7.0              |                                     |

## FortiFirewall 6.4

| Model                                                                                                                                     | Firmware Version | Firmware Build (for special branch) |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------|
| <b>FortiFirewall:</b> FortiFirewall-1801F, FortiFirewall-2600F<br><b>FortiFirewall DC:</b> FortiFirewall-1801F-DC, FortiFirewall-2600F-DC | 6.4.12           | 5423                                |
| <b>FortiFirewall:</b> FortiFirewall-3980E<br><b>FortiFirewall DC:</b> FortiFirewall-3980E-DC                                              | 6.4              |                                     |
| <b>FortiFirewall:</b> FortiFirewall-4200F, FortiFirewall-4400F                                                                            | 6.4              | 1999                                |
| <b>FortiFirewall:</b> FortiFirewall-4401F<br><b>FortiFirewall DC:</b> FortiFirewall-4401F-DC                                              | 6.4.12           | 5423                                |
| <b>FortiFirewall-VM:</b> FortiFirewall-VM64, FortiFirewall-VM64-KVM                                                                       | 6.4              |                                     |

## FortiFirewallCarrier models

Some of the following FortiFirewallCarrier models are released on special branches of FortiFirewallCarrier firmware. FortiManager version 7.2.4 supports these models on the identified FortiFirewallCarrier firmware version and build number.

### FortiFirewallCarrier 7.2

| Model                                                                                                                                                                                                       | Firmware Version |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-3980E, FortiFirewallCarrier-4200F, FortiFirewallCarrier-4400F<br><b>FortiFirewallCarrier-VM:</b> FortiFirewallCarrier-VM64, FortiFirewallCarrier-VM64-KVM | 7.2              |

### FortiFirewallCarrier 7.0

| Model                                                                               | Firmware Version | Firmware Build |
|-------------------------------------------------------------------------------------|------------------|----------------|
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-3001F                             | 7.0.10           | 4955           |
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-3501F                             | 7.0.10           | 4940           |
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4200F, FortiFirewallCarrier-4400F | 6.4              |                |
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4200F, FortiFirewallCarrier-4400F | 6.2.7            | 5148           |
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4401F                             | 6.4.9            | 5318           |

## FortiFirewallCarrier 6.4

| Model                                                                               | Firmware Version | Firmware Build |
|-------------------------------------------------------------------------------------|------------------|----------------|
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4200F, FortiFirewallCarrier-4400F | 6.4              |                |
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4401F                             | 6.4.9            | 5318           |

## FortiFirewallCarrier 6.2

| Model                                                                               | Firmware Version | Firmware Build |
|-------------------------------------------------------------------------------------|------------------|----------------|
| <b>FortiFirewallCarrier:</b> FortiFirewallCarrier-4200F, FortiFirewallCarrier-4400F | 6.2.7            | 5148           |

## FortiMail models

| Model                                                                                                                                                                               | Firmware Version |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-2000F, FE-3000F                                                                                  | 7.2              |
| <b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-1000D, FE-2000E, FE-2000F, FE-3000D, FE-3000E, FE-3000F, FE-3200E<br><b>FortiMail VM:</b> FML-VM | 7.0              |
| <b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-200F, FE-400E, FE-400F, FE-900F, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E<br><b>FortiMail VM:</b> FML-VM                     | 6.4              |

## FortiProxy models

| Model                                                                                                                                                                                                                                | Firmware Version   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>FortiProxy:</b> FPX-400E, FPX-2000E, FPX-4000E,<br><b>FortiProxy VM:</b> FortiProxy-AliCloud, FortiProxy-AWS, FortiProxy-Azure, FortiProxy-GCP, FortiProxy-HyperV, FortiProxy-KVM, FortiProxy-VM64                                | 7.2                |
| <b>FortiProxy:</b> FPX-400E, FPX-400G, FPX-2000E, FPX-2000G, FPX-4000E, FPX-4000G<br><b>FortiProxy VM:</b> FortiProxy-AliCloud, FortiProxy-AWS, FortiProxy-Azure, FortiProxy-GCP, FortiProxy-HyperV, FortiProxy-KVM, FortiProxy-VM64 | 7.0                |
| <b>FortiProxy:</b> FPX-400E, FPX-2000E, FPX-4000E<br><b>FortiProxy VM:</b> FortiProxy-KVM, FortiProxy-VM64                                                                                                                           | 1.0, 1.1, 1.2, 2.0 |

## FortiSandbox models

| Model                                                                                                                                                                                                                      | Firmware Version |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3000F, FSA-3500D<br><b>FortiSandbox DC:</b> FSA-1000F-DC<br><b>FortiSandbox-VM:</b> FortiSandbox-AWS, FortiSandbox-Cloud, FSA-VM | 4.2              |
| <b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3000F, FSA-3500D<br><b>FortiSandbox DC:</b> FSA-1000F-DC<br><b>FortiSandbox-VM:</b> FortiSandbox-AWS, FortiSandbox-Cloud, FSA-VM | 4.0              |
| <b>FortiSandbox:</b> FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D<br><b>FortiSandbox DC:</b> FSA-1000F-DC<br><b>FortiSandbox-VM:</b> FortiSandbox-AWS, FSA-VM                                | 3.2              |

## FortiSOAR models

| Model                             | Firmware Version |
|-----------------------------------|------------------|
| <b>FortiSOAR VM:</b> FortiSOAR-VM | 7.0, 7.2, 7.3    |

## FortiSwitch ATCA models

| Model                                                                             | Firmware Version |
|-----------------------------------------------------------------------------------|------------------|
| <b>FortiController:</b> FTCL-5103B, FTCL-5903C, FTCL-5913C                        | 5.2              |
| <b>FortiSwitch-ATCA:</b> FS-5003A, FS-5003B<br><b>FortiController:</b> FTCL-5103B | 5.0              |
| <b>FortiSwitch-ATCA:</b> FS-5003A, FS-5003B                                       | 4.3              |

## FortiTester models

| Model                                                                                                                                                                                                         | Firmware Version |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2000F, FortiTester-2500E, FortiTester-3000E, FortiTester-3000F, FortiTester-4000E, FortiTester-4000F | 7.1              |

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Firmware Version |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL, FortiTester-VM-ALI-PAYG, FortiTester-VM-AWS-BYOL, FortiTester-VM-AWS-PAYG, FortiTester-VM-AZURE-BYOL, FortiTester-VM-AZURE-PAYG, FortiTester-VM-GCP-BYOL, FortiTester-VM-GCP-PAYG, FortiTester-VM-IBM-PAYG, FortiTester-VM-KVM, FortiTester-VM-OCI-BYOL, FortiTester-VM-OCI-PAYG                                                                                                                                                                                                                  |                  |
| <b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2000F, FortiTester-2500E, FortiTester-3000E, FortiTester-3000F, FortiTester-4000E, FortiTester-4000F<br><b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL, FortiTester-VM-ALI-PAYG, FortiTester-VM-AWS-BYOL, FortiTester-VM-AWS-PAYG, FortiTester-VM-AZURE-BYOL, FortiTester-VM-AZURE-PAYG, FortiTester-VM-GCP-BYOL, FortiTester-VM-GCP-PAYG, FortiTester-VM-IBM-PAYG, FortiTester-VM-KVM, FortiTester-VM-OCI-BYOL, FortiTester-VM-OCI-PAYG | 7.0              |
| <b>FortiTester:</b> FortiTester-60F, FortiTester-100F, FortiTester-2000D, FortiTester-2000E, FortiTester-2500E, FortiTester-3000E, FortiTester-3000F, FortiTester-4000E, FortiTester-4000F<br><b>FortiTester VM:</b> FortiTester-VM, FortiTester-VM-ALI-BYOL, FortiTester-VM-ALI-PAYG, FortiTester-VM-AWS-BYOL, FortiTester-VM-AWS-PAYG, FortiTester-VM-AZURE-BYOL, FortiTester-VM-AZURE-PAYG, FortiTester-VM-GCP-BYOL, FortiTester-VM-GCP-PAYG, FortiTester-VM-IBM-PAYG, FortiTester-VM-KVM, FortiTester-VM-OCI-BYOL, FortiTester-VM-OCI-PAYG                    | 4.2              |

## FortiWeb models

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Firmware Version |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>FortiWeb:</b> FortiWeb-100D, FortiWeb-100E, FortiWeb-400C, FortiWeb-400D, FortiWeb-400E, FortiWeb-600D, FortiWeb-600E, FortiWeb-1000D, FortiWeb-1000E, FortiWeb-2000E, FortiWeb-2000F, FortiWeb-3000C, FortiWeb-3000CFSX, FortiWeb-3000D, FortiWeb-3000DFSX, FortiWeb-3000E, FortiWeb-3000F, FortiWeb-3010E, FortiWeb-4000C, FortiWeb-4000D, FortiWeb-4000E, FortiWeb-4000F<br><b>FortiWeb VM:</b> FortiWeb-Azure, FortiWeb-Azure_OnDemand, FortiWeb-Docker, FortiWeb-GCP, FortiWeb-GCP_OnDemand, FortiWeb-HyperV, FortiWeb-VM, FortiWeb-XENOpenSource, FortiWeb-XENServer | 6.4, 7.0, 7.2    |

# Resolved Issues

The following issues have been fixed in 7.2.4. To inquire about a particular bug, please contact [Customer Service & Support](#).

## AP Manager

| Bug ID | Description                                                                                          |
|--------|------------------------------------------------------------------------------------------------------|
| 865486 | The FortiManager's <i>AP Manager</i> permits the use of invalid channels with a 40MHz channel width. |
| 892773 | Assigning AP Profile returns invalid value.                                                          |

## Device Manager

| Bug ID | Description                                                                                                                                                |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 768289 | There is a discrepancy in the usage of quotation marks (") when configuring DHCP relay from FortiManager or retrieving it from FortiGate.                  |
| 831624 | <i>SD-WAN Monitor</i> under the <i>Monitors</i> displays time frame as "invalid date - invalid date".                                                      |
| 895001 | The "gui-ztna" configuration is displayed as enabled on the FortiManager even though this setting is disabled on the FortiGate.                            |
| 896127 | When attempting to create a VLAN type with a name longer than 15 characters, FortiManager displays an error message.                                       |
| 896367 | The geographic coordination config of FortiGates on <i>Device Manager</i> is being reset to 0, 0 after a certain period of time.                           |
| 899350 | Promote button is missing for FortiGate 80F Clusters.                                                                                                      |
| 899541 | An error message, "upgrade image failed", is shown, even though the upgrade has been completed successfully.                                               |
| 902908 | Managed FortiAnalyzer is not listed under <i>System Template</i> .                                                                                         |
| 905869 | Invalid default value for VRF ID is observed when creating static route.                                                                                   |
| 910391 | When FortiManager operates in a non-default workspace mode, it may attempt to purge the configuration of the FortiGate devices due to database corruption. |
| 911535 | Adding a Model device with MetaVariables changes the status of other devices which using                                                                   |



| Bug ID | Description                                                                                                                                      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|        | the MetaVariables to Modified/unknown.                                                                                                           |
| 915361 | FortiWifi devices are displayed in FortiManager under the Vulnerable devices as FortiAP.                                                         |
| 917810 | FortiManager displays an event log with the "update temp cachedb failed" error message when changing the FortiGate management VDOM to mgmt-vdom. |
| 917969 | FortiManager is unable to search static routes via its interface name.                                                                           |
| 919613 | When using a space character in "psksecret", the FortiManager is unable to install the "psksecret" and displays an error message.                |
| 921094 | In 6.2 or 6.4 ADOMs, problems might occur when attempting to add or modify static routes.                                                        |
| 925546 | Assigned Devices on Provisioning Template\CLI Temp shows incorrect VDOM.                                                                         |
| 925684 | Only a maximum of 10 devices can be previewed before installation using 'install preview'.                                                       |
| 925854 | FortiManager fails to load the security fabric data for FortiGates (Versions 7.0.5+ & 7.2.5).                                                    |
| 931736 | Adding a new cli template script into existing cli template group changes the order of cli templates to alphabetical order.                      |
| 936544 | When importing CLI Templates, GUI displays a blank page.                                                                                         |

## FortiSwitch Manager

| Bug ID | Description                                                                                                                |
|--------|----------------------------------------------------------------------------------------------------------------------------|
| 881766 | Event logs or task manager do not show which user authorized a Fortiswitch.                                                |
| 947651 | <i>Per Device</i> under the <i>FortiSwitch Manager</i> cannot edit FortiSwitch name and GUI returns error "invalid value". |

## Global ADOM

| Bug ID | Description                                                                                                           |
|--------|-----------------------------------------------------------------------------------------------------------------------|
| 894714 | FortiManager does not allow creating/modifying or removing the per-device mapping in global objects in assigned ADOM. |
| 925188 | The per-device mapping for any assigned global objects cannot be modified.                                            |

## Others

| Bug ID | Description                                                                                                                         |
|--------|-------------------------------------------------------------------------------------------------------------------------------------|
| 880465 | TCP ports 8902 & 8903 are opened and in listening mode after the upgrade.                                                           |
| 885665 | Unable to specify type of objects in FortiProxy ADOM.                                                                               |
| 894947 | FortiManager fails to trigger the event handler for its local events after enabling the FortiAnalyzer feature.                      |
| 895982 | Admin with a super user profile is not able to create the Firmware Template when FortiManager is working in the Workflow mode.      |
| 900512 | FortiManager ADOM Upgrade fails with the error message, "Peer type cannot be peer when authentication method is pre-share key".     |
| 910175 | When provisioning the FortiExtender via CLI template, FortiManager displays the "mismatch interface" error message.                 |
| 914027 | FortiManager does not display/use the latest ISDB version for all of its ADOMs.                                                     |
| 916463 | The approval emails are not being sent to the "Email Notification" admins when a new session is created and submitted for approval. |
| 918129 | FortiManager does not support the AWS Security Token Service in AWS SDN connector.                                                  |
| 919981 | Installation fails to Azure FortiGate standalone as FortiManager attempts to set the peervd to "root".                              |
| 921273 | Unable to upgrade ADOMs due to the XSS vulnerability characters check on wireless-controller.                                       |
| 925778 | FortiGates are displayed offline and Inactive on FortiWLM MEA.                                                                      |
| 930425 | When downloading the install preview, the file name doesn't include the timestamp.                                                  |

## Policy and Objects

| Bug ID | Description                                                                                             |
|--------|---------------------------------------------------------------------------------------------------------|
| 696367 | Hit count, first used, and last used may not get updated on FortiManager.                               |
| 780058 | FortiManager's GUI does not support the "src-vendor-mac" objects in Firewall policy.                    |
| 830640 | "Send files to FortiSandbox for inspection" option is being enabled when creating an antivirus profile. |
| 863819 | Unable to delete unused objects.                                                                        |
| 869863 | NSX connector; unable to deselect the group with no users.                                              |
| 873358 | Installation fails as FortiManager tries to set "cgn-client-startip" and "cgn-client-                   |

| Bug ID | Description                                                                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | endip" settings when ippool object has been modified.                                                                                                                                              |
| 880418 | The default values of the Application Control Profile entries cannot be changed.                                                                                                                   |
| 883064 | Any admin make changes to "Object Selection Pane", either set it to <i>Dock to Right</i> , <i>Dock to Bottom</i> , or <i>Classic Dual Pane</i> , it will affect all other admin's GUI preferences. |
| 889586 | Azure Service Tags not displayed correctly in FortiManager.                                                                                                                                        |
| 894597 | Default value for "unsupported-ssl-version" in ssl-ssh-profile gets modified during the installation.                                                                                              |
| 896461 | FortiManager disables ip6-send-adv after opening and closing interface configuration.                                                                                                              |
| 898883 | Exported firewall policies do not contain firewall address values IP, netmask and other details.                                                                                                   |
| 899135 | Installation fails as FortiManager tries to unset the "arp-profile" during the installation.                                                                                                       |
| 902298 | FortiManager does not generate error messages when invalid or obsolete application IDs are used in the policy. Instead, it allows installation and sets the category to "pass" or "monitor".       |
| 912114 | FortiManager is unable to import OpenStack SDN connector and the following error message is displayed: "send_sdn_connector_openstack_cmd: Failed to get openstack token".                          |
| 914945 | Unable to modify or clone the "SSL/SSH inspection profile" in the <i>Policy &amp; Object</i> on the ADOM 7.0 version.                                                                              |
| 914981 | In <i>Policy &amp; Object</i> , local policy is not displayed if view mode " <i>Interface pair view</i> " is selected.                                                                             |
| 916459 | The option " <i>Allow Websites When a Rating Error Occurs</i> " is not being saved correctly in the default web filter.                                                                            |
| 919415 | Unable to " <i>Edit</i> " and " <i>Delete</i> " Installation Target after enabling classic dual pane mode.                                                                                         |
| 919681 | The incoming and outgoing interfaces are not loading after creating a custom policy package in a 7.2 FortiGate ADOM.                                                                               |
| 920740 | Unable to create a per device mapping for a virtual server                                                                                                                                         |
| 922648 | FortiManager unable to push WiFi SSID to FortiGates.                                                                                                                                               |
| 924680 | Policy packages containing geo-based ISDB objects may not be successfully installed to the FortiGates.                                                                                             |
| 925058 | "Web URL Filter" entries are not visible in the <i>Web Filter Profile</i> .                                                                                                                        |
| 925076 | FortiManager tries to install different preconnection-id under <i>VPN SSL WEB Portal &gt; Profile &gt; Bookmark-Group &gt; GUI-Bookmark &gt; Book</i> .                                            |
| 939979 | After editing authentication-rule/portal mapping, FortiManager installs unexpected changes to these rules.                                                                                         |

## Revision History

| Bug ID | Description                                                                       |
|--------|-----------------------------------------------------------------------------------|
| 513317 | FortiManager may fail to install policy after FortiGate failover on Azure.        |
| 904710 | Restoring a revision of a policy removes the information of all the SD-WAN rules. |

## Script

| Bug ID | Description                                                                                                            |
|--------|------------------------------------------------------------------------------------------------------------------------|
| 913360 | Device script is trying to add additional configuration; therefore, installation gets failed.                          |
| 923966 | When FortiManager is operating in Workspace mode, there are no options to save changes after executing a CLI script.   |
| 931196 | Scheduled Scripts created by the LDAP users cannot be run and FortiManager displays "Data is not ready" error message. |

## System Settings

| Bug ID | Description                                                                                  |
|--------|----------------------------------------------------------------------------------------------|
| 842732 | FortiManager does not display the Secondary HA member's status correctly.                    |
| 888374 | Admin user's ADOM setting can not be synced to secondary when adom-access is set to specify. |
| 890956 | SAML SSO Authentication only works with the default local certs.                             |
| 861997 | Unable to delete a particular non-default empty ADOM.                                        |

## VPN Manager

| Bug ID | Description                                                                                            |
|--------|--------------------------------------------------------------------------------------------------------|
| 847479 | Despite being configured for 'SHA-256,' FortiManager is installing 'SHA-1' certificates on FortiGates. |
| 863424 | The "Latest Patch Level" should be available with action "Check-up-to-date" under the SSL VPN Portal.  |
| 923221 | Provision Template - IPsec Tunnel: cannot Activate IPsec_Fortinet_Recommended; GUI                     |

| Bug ID | Description                                                                                         |
|--------|-----------------------------------------------------------------------------------------------------|
|        | returns error.                                                                                      |
| 931564 | In <i>VPN Manager</i> , ipsec vpn map, topology view, and traffic view do not display map normally. |

## Common Vulnerabilities and Exposures

Visit <https://fortiguard.com/psirt> for more information.

| Bug ID | CVE references                                                                                                                              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 539972 | FortiManager 7.2.4 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-44256</li></ul> |
| 921579 | FortiManager 7.2.4 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-42788</li></ul> |
| 922503 | FortiManager 7.2.4 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-41838</li></ul> |
| 928114 | FortiManager 7.2.4 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-42787</li></ul> |
| 934151 | FortiManager 7.2.4 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-42791</li></ul> |
| 941847 | FortiManager 7.2.4 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• CVE-2023-44249</li></ul> |

# Known Issues

The following issues have been identified in 7.2.4. To inquire about a particular bug or to report a bug, please contact [Customer Service & Support](#).

## AP Manager

| Bug ID | Description                                                                                               |
|--------|-----------------------------------------------------------------------------------------------------------|
| 884233 | FortiManager displays the AP critical security vulnerability info even after FortiAPs are being upgraded. |

## Device Manager

| Bug ID | Description                                                                                                   |
|--------|---------------------------------------------------------------------------------------------------------------|
| 811104 | Import policy package fails after installing web-proxy through CLI configurations.                            |
| 888948 | The "firewall ssh setting" objects cannot be retrieved on FortiManager due to the FortiOS's bug (ID 0906987). |
| 939921 | The firmware upgrade in ADOM mode backup is not allowed.                                                      |
| 956567 | Not able to edit/delete Logging Devices Group.                                                                |

## FortiSwitch Manager

| Bug ID | Description                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------|
| 940419 | When adding FortiSwitch on FortiManager, the error message, "Import error - invalid port number" is displayed. |

## Others

| Bug ID | Description                                                               |
|--------|---------------------------------------------------------------------------|
| 703585 | FortiManager may return 'Connection aborted' error with JSON API request. |

| Bug ID | Description                                                                                                                                                                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 777831 | When FortiAnalyzer is added as a managed device to FortiManager, "Incident & Events" tile will be displayed instead of "FortiSoC".                                                                                                                                               |
| 796858 | Subject Key Identifier extension is missing on FortiManager ADOM CA certificate.                                                                                                                                                                                                 |
| 891253 | The firmware upgrade is successful; however, the task line does not get updated for the retrieve action when device names exceed the predefined character limit.                                                                                                                 |
| 894219 | The log filter does not function correctly when filtering by FGT HA cluster ID instead of the device ID for individual FortiGate units.                                                                                                                                          |
| 922957 | The "fmgd" process may crash while loading the ADOM when multiple Policy Packages are locked.                                                                                                                                                                                    |
| 924164 | The firmware template status changes to "unknown" after retrieve.                                                                                                                                                                                                                |
| 930305 | Firmware template upgrade preview shows incorrect versions for the upgrade.                                                                                                                                                                                                      |
| 935430 | When FortiAnalyzer is managed by FortiManager and FortiManager's local logs are being sent to FortiAnalyzer, installing PP to FortiGates may display the following message: "Confirm Deletion FortiManager is going to sync the following device deletion to FortiAnalyzer,...". |

## Policy & Objects

| Bug ID | Description                                                                                                                                                                                                                                                                                                                    |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 630648 | A FortiManager instance running on Microsoft Azure is unable to import the SDN connector for a dynamic firewall address and is displaying an error message stating "wrong input parameter."                                                                                                                                    |
| 718223 | Hyperscale firewall EIF shall not be enabled when IP pool with CGN overload configuration is used in a policy.                                                                                                                                                                                                                 |
| 751443 | FortiManager displays policy installation copy failures error when ipsec template gets unassigned.<br><b>Workaround:</b> Ensure a fresh FMG's backup is created prior to any changes. Instead of unassigning IPSec template, modify IPSec template and replace the reference to IPSec tunnel interface with another interface. |
| 779363 | FortiManager fails to install <code>analytics-wl-filetype</code> in AV profile to FortiGates.                                                                                                                                                                                                                                  |
| 845022 | SDN Connector failed to import objects from VMware VSphere.                                                                                                                                                                                                                                                                    |
| 855073 | The "where used" feature does not function properly.                                                                                                                                                                                                                                                                           |
| 855317 | New users added to the user group for IPSec dial-up XAuth authentication do not get installed.                                                                                                                                                                                                                                 |
| 886911 | FortiManager is attempting to modify replacement messages after upgrade, and this leads to installation failure.                                                                                                                                                                                                               |

| Bug ID | Description                                                                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 900229 | In policy-based policy packaged, application IDs are displayed instead of their names.                                                                       |
| 907925 | IPS profile/Signature tab is not visible for admins with non-default admin profile.                                                                          |
| 908445 | FortiManager does not display correct edit page for virtual server VIP when edit object in policy table.                                                     |
| 917471 | The EMS connector is automatically being disabled.                                                                                                           |
| 920983 | The policy blocks using a group object do not get updated when the objects within the group are modified.                                                    |
| 938019 | Policy Package Status not changed on modification of nested group used in policy block.                                                                      |
| 942659 | Syncing EMS tags from FortiManager fails when the EMS Connector is configured in multi-site mode.                                                            |
| 945632 | Modifying the Policy Installation Target does not trigger a status change in the Policy Package when adding an "install on" to a single policy.              |
| 949515 | Security Policy Installation Verification fails because the <code>internet-service-negate</code> feature gets enabled every time after modifying the policy. |
| 957225 | ADOM admin users not able to view the managed FortiGate in the policy push wizard.                                                                           |

## Revision History

| Bug ID | Description                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 801614 | FortiManager might display an error message, "Failed to create a new revision." for some FortiGates when retrieving their configurations. |
| 894523 | Object revision timestamp is taken from previous revision.                                                                                |

## Services

| Bug ID | Description                                                                                                      |
|--------|------------------------------------------------------------------------------------------------------------------|
| 863094 | The query status is not functioning correctly, and the "top 10 unrated sites" section actually displays ratings. |



## System Settings

| Bug ID | Description                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------|
| 825319 | FortiManager fails to promote a FortiGate HA member (running on firmware 7.2.0 to 7.2.4) to the Primary. |
| 853429 | Creating FortiManager's configuration backup via scp cannot be done.                                     |

## VPN Manager

| Bug ID | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 784385 | <p>If policy changes are made directly on the FortiGates, the subsequent PP import creates faulty dynamic mappings for <i>VPN Manager</i>.</p> <p><b>Workaround:</b> It is strongly recommended to create a fresh backup of the FortiManager's configuration prior to the workaround. Perform the following command to check &amp; repair the FortiManager's configuration database:</p> <pre>diagnose cdb check policy-packages &lt;adom&gt;</pre> <p>After running this command, FortiManager will remove the invalid mappings of vpnmgr interfaces.</p> |
| 906097 | <i>VPN Manager</i> IPsec community Phase 2 encryption setting can't be changed to AES256GCM from the GUI.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Appendix A - FortiGuard Distribution Servers (FDS)

In order for FortiManager to request and retrieve updates from FDS, and for FortiManager to serve as an FDS, please configure the necessary settings on all devices between FortiManager and FDS, or between FortiManager and FortiGate devices based on the following items:

- FortiManager accesses FDS for antivirus and attack updates through TCP/SSL port 443.
- If there is a proxy server between FortiManager and FDS, FortiManager uses port 80 to communicate with the proxy server by default, and connects to the proxy server using HTTP protocol.
- If FortiManager manages a FortiGate device located behind a proxy server, the proxy server permits TCP/SSL traffic to pass through port 443.

### FortiGuard Center update support

You can configure FortiManager as a local FDS to provide FortiGuard updates to other Fortinet devices and agents on your network. The following table lists which updates are available per platform:

| Platform      | Update Service | Query Service |
|---------------|----------------|---------------|
| FortiGate     | ✓              | ✓             |
| FortiADC      | ✓              |               |
| FortiCache    | ✓              |               |
| FortiCarrier  | ✓              | ✓             |
| FortiClient   | ✓              |               |
| FortiDeceptor | ✓              | ✓             |
| FortiDDoS     | ✓              |               |
| FortiEMS      | ✓              |               |
| FortiMail     | ✓              | ✓             |
| FortiProxy    | ✓              | ✓             |
| FortiSandbox  | ✓              | ✓             |
| FortiSOAR     | ✓              |               |
| FortiTester   | ✓              |               |
| FortiWeb      | ✓              |               |

## Appendix B - Default and maximum number of ADOMs supported

This section identifies the supported number of ADOMs for FortiManager hardware models and virtual machines.

### Hardware models

FortiManager supports a default number of ADOMs based on hardware model.

Some hardware models support an ADOM subscription license. When you purchase an ADOM subscription license, you increase the number of supported ADOMs. For example, you can purchase an ADOM subscription license for the FMG-3000G series, which allows you to use up to a maximum of 8000 ADOMs.

Other hardware models do not support the ADOM subscription license. For hardware models that do not support the ADOM subscription license, the default and maximum number of ADOMs is the same.

| FortiManager Platform | Default number of ADOMs | ADOM license support? | Maximum number of ADOMs |
|-----------------------|-------------------------|-----------------------|-------------------------|
| 200G Series           | 30                      |                       | 30                      |
| 300F Series           | 100                     |                       | 100                     |
| 400G Series           | 150                     |                       | 150                     |
| 1000F Series          | 1000                    |                       | 1000                    |
| 2000E Series          | 1200                    |                       | 1200                    |
| 3000G Series          | 4000                    | ✓                     | 8000                    |
| 3700G Series          | 10,000                  | ✓                     | 12,000                  |

For FortiManager F series and earlier, the maximum number of ADOMs is equal to the maximum devices/VDOMs as described in the [FortiManager Data Sheet](#).

### Virtual Machines

FortiManager VM subscription license includes five (5) ADOMs. Additional ADOMs can be purchased with an ADOM subscription license.

For FortiManager VM perpetual license, the maximum number of ADOMs is equal to the maximum number of Devices/VDOMs listed in the [FortiManager Data Sheet](#).



FortiManager VM subscription and perpetual licenses are stackable.

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